

This is the monthly newsletter of the LANL Engineering Standards Program. The Standards are mandatory documents that apply to all personnel performing engineering and construction services for LANL, both programmatic and facility -- including new equipment and facilities and maintenance and modification of existing. [LIR 220-03-01]

**Topics this month:**

**Programmatic Enhancements to the Standards  
Welding Inspector Training/Certification  
Standards Issued in July**

The Standards Homepage: <http://engstandards.lanl.gov/>

**PROGRAMMATIC ENHANCEMENTS TO THE STANDARDS**

A meeting is being held this Wednesday, August 3, for persons interested in discussing the expansion of programmatic equipment topics in the Standards, maintaining and publicizing subject matter expertise, and suggesting specific topics. Volunteer authors may also be sought. The meeting will be from 2-4 pm in the TA-16 (S-Site), Bldg 969, Conference Room. If you cannot attend but have ideas, please send them to [oruch@lanl.gov](mailto:oruch@lanl.gov) or [kchristensen@lanl.gov](mailto:kchristensen@lanl.gov) prior to meeting if possible.

**WELDING INSPECTOR TRAINING/CERTIFICATION**

Because weld inspection is required by all the governing codes through ESM Chapter 13 and is also appropriate for some non-code, R&D work, MST Division is sponsoring an AWS Welding Inspector Training/Certification seminar September 11-17, 2005 (Sun 1 PM through Fri 5PM). The seminar will be comprised of four parts: the D1.1 Code Clinic, the Code Clinic for API-1104, the Welding Inspection Technology Seminar, and the Visual Inspection Workshop.

The approximate cost is \$1500/participant. A program code will be required with your application and will be non-refundable.

AWS will provide the Certification Manual for Welding Inspectors (CM: 2000) as pre-course study material for each student. CM: 2000 will be shipped prior to the seminar.

AWS will conduct the Certified Welding Educator (CWI) examination here on Saturday following the CWI seminar. The CWI examination will be scheduled through the Certification Department; Exam applications must be received at least seven weeks prior to the 9/18 exam date. Applications submitted after this date, are subject to the Certification Department Fast Track Processing Fee of \$250. Each seminar participant will receive a one-year membership in AWS at no additional charge. AWS will issue certificates of participation to all participants.

To sign up:

Please complete the applications (found at <http://www.aws.org/certification/docs/#C> ).

Indicate LANL as the site and "platinum pack" as the package. Specify the code for which you will take the test (you can download the API 1104 document from IHS). Resumes will not work for work experience; you will need to fill out the form completely. Return the completed documents to Michelle Montoya, MST-OPS, Phone 606-0345, Fax 5-9427 **BY COB TUESDAY, Aug 2**

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**STANDARDS ISSUED IN JULY** <http://engstandards.lanl.gov/>

The following LANL Engineering Standards were issued in July:

**LANL Engineering Standards Manual** <http://engstandards.lanl.gov/engrman/13weld/html/13-vol3.htm>

**Ch. 13, GWS 1-03 Attachment 7, Welding Checklist, R1** - added "Do Not Close Out Project until all required weld inspections have been completed" and other admin changes.

**Ch. 13 GWS 1-03 Welding Procedure Specifications (WPS)**

<http://engstandards.lanl.gov/engrman/13weld/html/13-vol3-spec.htm>

2007-8-A                      New specification

The following Welding Specifications were revised to incorporate comment resolution from an independent technical review:

1000-1 R1                      Updated

1000-8 R1                      Updated

2010-1 R1                      Updated

2010-1000-1 R1              Updated

NEW - WPS Archive webpage: [http://engstandards.lanl.gov/engrman/13weld/html/13-vol3-wps\\_archives.htm](http://engstandards.lanl.gov/engrman/13weld/html/13-vol3-wps_archives.htm)

**LANL Construction Specifications** [http://engstandards.lanl.gov/New\\_Home.html#spec](http://engstandards.lanl.gov/New_Home.html#spec)

**01630, R3** - Product Options & Substitutions. Revised to add structural design change instructions.

**07300, R2** - Roofing General Provisions. Reduced warranty requirements for SBS and CSPE; revised warranty requirements for LANL-furnished and SSS-installed roofing systems.

**12500, R1** - System Furniture and Seating. Updated manufacturer product colors and finishes; deleted "Panel-Mounted Worksurfaces" from this specification.

**13085, R4** - Seismic Protection, Major revision. Rewritten to be in accordance with IBC 2003 and ASCE 7-02 and ESM Ch. 5, Structural, Rev. 1.

**15060, R2** - Hangers & Supports for Piping and Tubing. Revised to refer to 15070 for seismic protection.

**15070, R0** - Mechanical Seismic.              Initial Issue.

**15140, R5** - Potable & [Non-Potable] Water Piping. Minor editorial changes and revised Sections 2.4, 2.8, 2.9, and 2.10. Added Section 2.6 and 2.7.

**16070, R1** - Hangers, Supports, and Seismic Protection. Revised to make design structural engineer responsible for design of seismic protection for electrical components, not construction contractor.

**16215, R1** - Metering. Revised to (1) sole source the Square D CM3350 meter (2) The LANL SSS (UI) will install, connect, program, and test the meter module.

**LANL Drafting Manual** <http://engstandards.lanl.gov/index.html#dm>

**Section 200, R3-change 1** - the following figures were modified to updated title block logo and Note text sizes: Fig. 202-1, 202-2, 202-3, and 214-9. <http://engstandards.lanl.gov/drftman/appendix.htm>

**Appendix B** - General Symbols Chart - added 33A symbol; updated individual symbol site [http://engstandards.lanl.gov/drftman/symbol\\_gen.htm](http://engstandards.lanl.gov/drftman/symbol_gen.htm)

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